

### **ABSTRACT**

Methods are provided for producing non-glycosylated, single-chain and two-chain pro-urokinase (pro-UK) mutants. The methods include cultivating a specific *E. coli* type B strain that has been transformed with specific plasmids carrying a cDNA sequence that encodes pro-UK mutants and carries specific promoter sequences. Products produced by the methods have medical use for thrombolysis performed while sparing hemostatic clots, e.g., for particular applications such as after a stroke or heart attack.